

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P970806

Luminaire Tested: **NAV-SB6C-722-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-722-U-T3R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39476.9 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

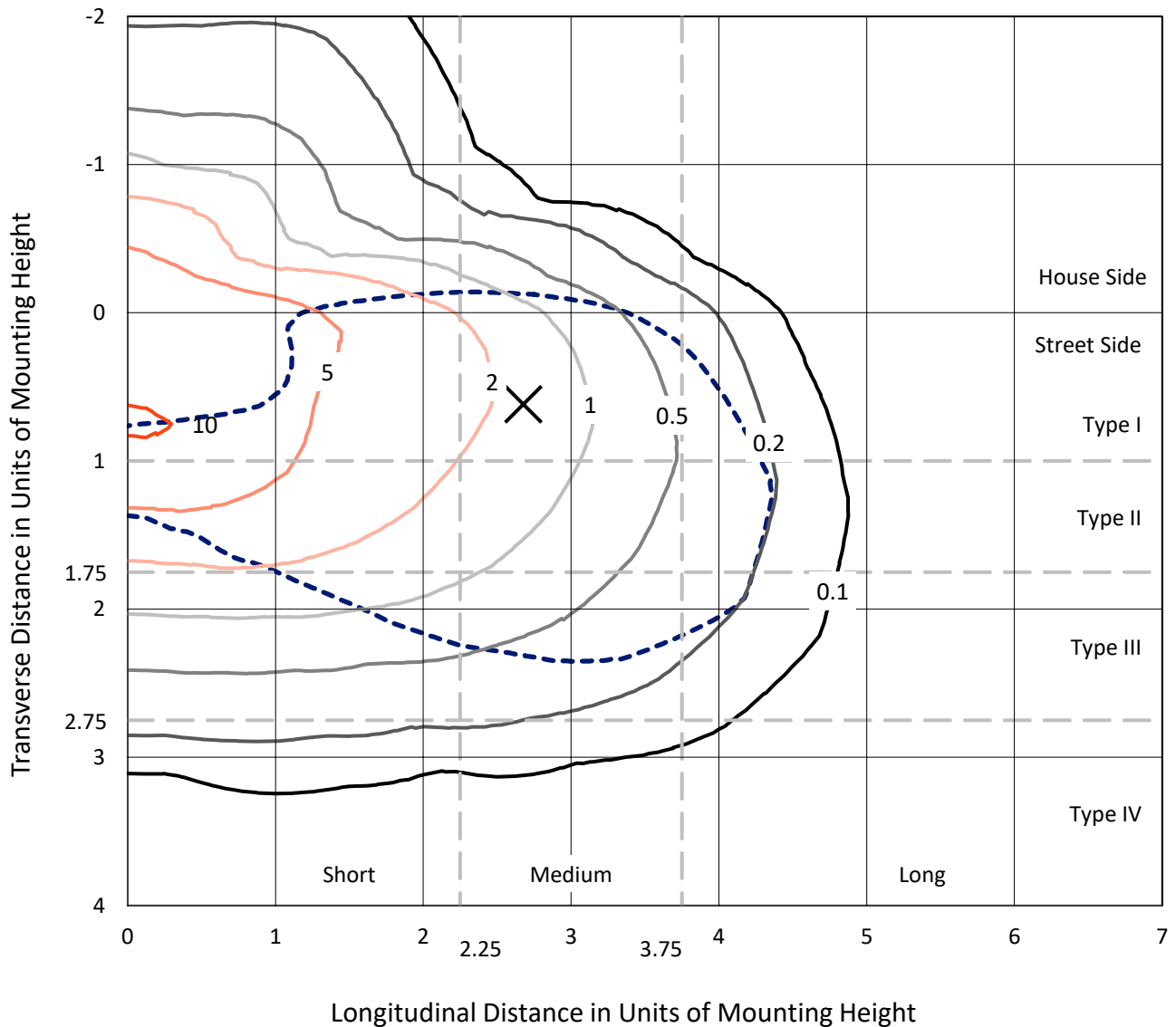
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

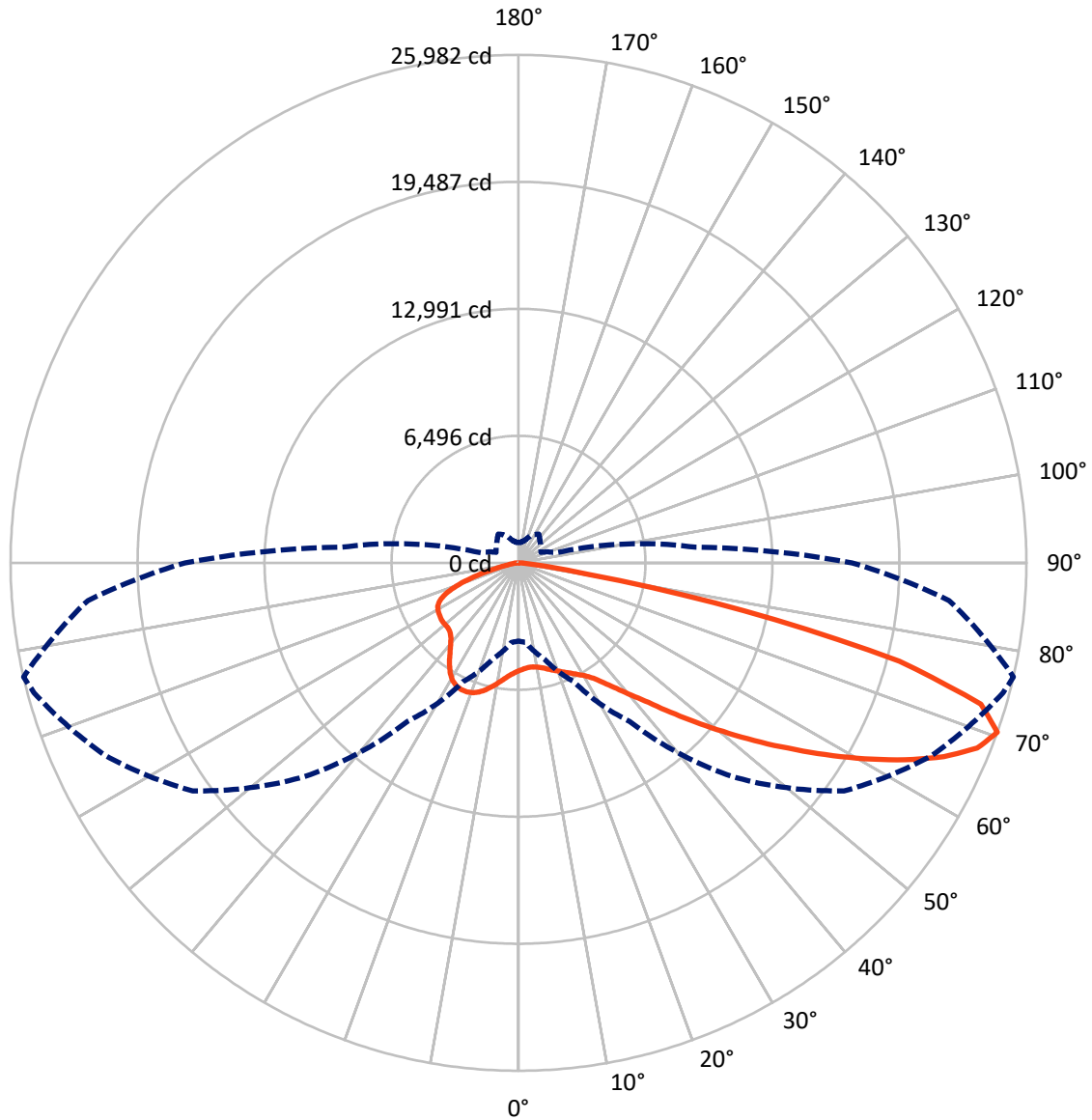
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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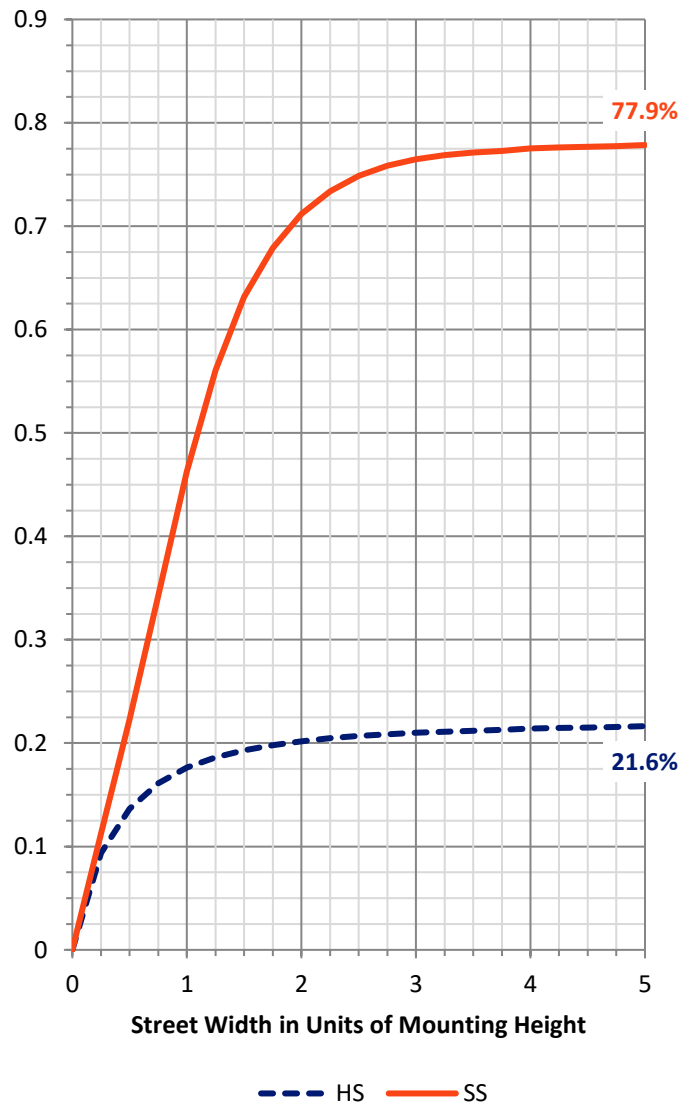
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8644.8	0.0	8644.8
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	30832.0	0.0	30832.0
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	39476.9	0.0	39476.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	525.3	1.3
10°-20°	1515.9	3.8
20°-30°	2592.5	6.6
30°-40°	4168.9	10.6
40°-50°	6508.8	16.5
50°-60°	8694.3	22.0
60°-70°	9266.7	23.5
70°-80°	5704.5	14.5
80°-90°	499.9	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39476.9	100.0
0°-180°	39476.9	100.0

**Coefficient of Utilization**

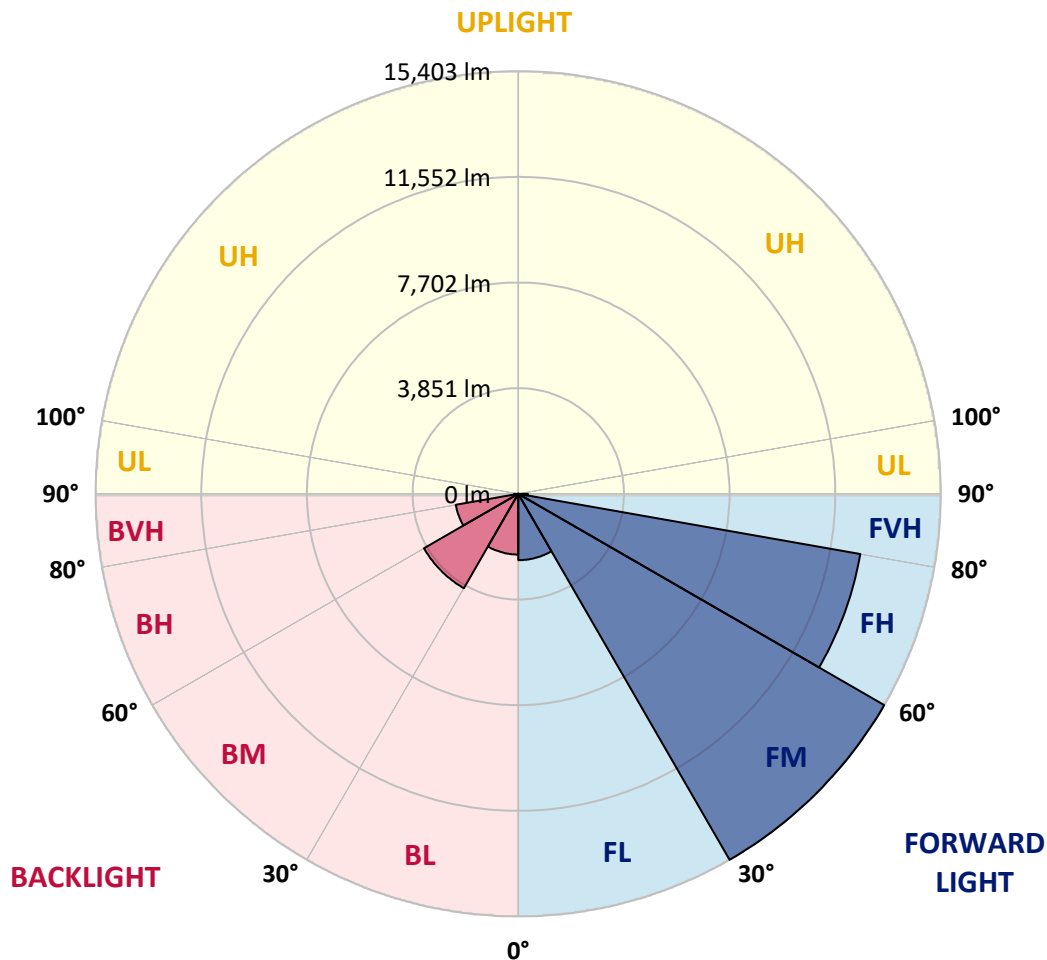


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2418.6	6.1			
FM (30°-60°)	15403.0	39.0			
FH (60°-80°)	12660.9	32.1			G5
FVH (80°-90°)	349.5	0.9			G3/500
BL (0°-30°)	2215.1	5.6	B3/2500		
BM (30°-60°)	3969.0	10.1	B3/5000		
BH (60°-80°)	2310.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	150.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5507.4	5507.4	5507.4	5507.4	5507.4	5507.4	5507.4	5507.4	5507.4	5507.4	5507.4
2.5°	5076.7	5074.7	5101.0	5109.1	5157.6	5191.9	5256.7	5325.4	5414.4	5424.5	5479.0
5°	4783.6	4783.6	4813.9	4846.3	4908.9	4977.7	5076.7	5196.0	5349.7	5374.0	5509.4
7.5°	4534.9	4551.1	4577.3	4640.1	4712.8	4811.9	4963.6	5133.3	5335.5	5374.0	5592.3
10°	4334.7	4353.0	4385.3	4435.8	4545.1	4682.5	4880.6	5099.0	5369.9	5430.6	5713.6
12.5°	4272.1	4290.2	4308.5	4346.8	4448.0	4609.7	4846.3	5115.2	5452.8	5513.5	5879.4
15°	4417.6	4439.9	4425.7	4415.6	4468.2	4615.8	4862.4	5173.8	5555.9	5642.8	6083.6
17.5°	4753.2	4761.3	4728.9	4633.9	4625.9	4704.8	4939.3	5254.7	5685.3	5780.3	6289.8
20°	5295.0	5280.9	5214.2	5026.2	4919.1	4902.9	5070.7	5375.9	5818.7	5919.8	6512.2
22.5°	6031.0	6014.8	5881.4	5584.2	5345.7	5187.9	5260.7	5533.7	5968.4	6081.5	6728.5
25°	6948.9	6926.6	6730.6	6326.2	5956.2	5566.1	5519.5	5741.9	6152.4	6257.4	6955.0
27.5°	8020.5	8002.3	7790.0	7256.3	6722.5	6083.6	5841.0	5986.5	6344.4	6463.6	7209.7
30°	9172.9	9225.5	8849.4	8275.2	7600.0	6758.8	6273.6	6287.8	6593.1	6700.2	7519.1
32.5°	10527.5	10618.5	10165.6	9437.8	8515.8	7492.7	6819.5	6708.3	6955.0	7043.9	7909.3
35°	11870.0	11973.1	11597.1	10792.3	9730.9	8358.2	7389.6	7191.5	7436.2	7533.2	8426.8
37.5°	13030.5	13168.0	12973.8	12274.4	11030.9	9401.4	8133.7	7759.7	8028.5	8149.9	9122.4
40°	13946.4	14156.7	14142.4	13705.8	12563.4	10667.0	9077.9	8461.3	8764.5	8895.9	9965.5
42.5°	14690.4	14872.3	15030.1	15007.8	14162.7	12104.5	10187.9	9373.0	9603.5	9755.1	10913.7
45°	15203.9	15398.1	15737.6	16103.7	15701.3	13643.1	11459.6	10454.7	10665.0	10893.5	12043.9
47.5°	15662.9	15883.3	16324.0	16904.3	17007.4	15187.7	12852.6	11714.3	11906.4	12143.0	13178.1
50°	15703.3	15893.3	16576.7	17399.6	17935.3	16671.7	14348.7	13127.6	13307.5	13560.2	14393.2
52.5°	14726.8	15026.0	16218.9	17385.4	18362.0	17913.1	15834.7	14597.4	14799.6	15102.9	15650.7
55°	11431.2	11870.0	15169.6	16843.6	18210.4	18715.8	17248.0	16160.3	16419.1	16736.4	16916.4
57.5°	9846.2	10038.2	12041.8	15857.0	17518.9	18924.1	18440.9	17739.3	18155.7	18503.5	18254.8
60°	8849.4	9009.1	10193.9	14322.4	16609.1	18594.5	19362.8	19211.2	19930.9	20345.3	19623.6
62.5°	7781.9	7933.5	9011.2	11959.0	15444.5	18046.6	19945.1	20569.8	21750.5	22203.4	20913.5
65°	6722.5	6851.9	7885.0	10048.4	13964.6	17498.7	20246.3	21744.5	23434.7	23903.7	21985.0
67.5°	5541.8	5648.9	6625.4	8477.4	12165.2	16748.6	20395.9	22668.4	24900.4	25302.8	22514.7
70°	3999.1	4082.1	5090.9	6704.3	9906.8	15458.6	20335.3	23323.5	25660.7	25982.1	22114.5
72.5°	1890.4	1965.2	3149.9	4353.0	6997.5	12947.6	19108.0	22803.9	24888.3	24728.6	19664.0
75°	1008.9	1073.6	1809.5	2387.7	3695.8	8875.7	15636.6	19643.8	20899.3	20123.0	14532.7
77.5°	683.4	733.9	1120.1	1433.5	1688.2	4213.5	10050.3	13600.6	13085.0	11803.3	7278.5
80°	541.8	594.4	917.9	970.5	816.8	1522.4	4152.8	6295.9	4522.8	3617.0	2070.3
82.5°	416.5	475.1	772.3	703.6	444.7	624.7	1209.0	1991.5	1158.5	881.5	501.4
85°	254.7	317.4	606.5	448.8	250.7	285.1	410.4	554.0	353.8	295.2	180.0
87.5°	129.4	181.9	307.3	163.8	113.3	66.7	109.2	109.2	93.0	80.9	46.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5507.4	5507.4	5507.4	5507.4	5507.4	5507.4	5507.4	5507.4	5507.4	5507.4	5507.4
2.5°	5527.6	5568.0	5636.8	5701.5	5752.0	5800.6	5849.1	5875.3	5883.4	5915.8	5933.9
5°	5592.3	5667.1	5800.6	5925.9	6004.8	6053.2	6087.7	6107.9	6111.9	6122.0	6138.2
7.5°	5711.6	5830.9	6016.9	6142.2	6200.8	6196.8	6182.7	6132.2	6111.9	6093.7	6097.7
10°	5879.4	6037.0	6265.5	6352.5	6316.0	6219.1	6093.7	5946.1	5877.3	5810.6	5790.4
12.5°	6087.7	6287.8	6512.2	6508.1	6328.2	6079.6	5788.4	5562.0	5418.5	5315.3	5291.0
15°	6340.3	6570.9	6742.7	6605.2	6211.0	5764.2	5337.6	5042.4	4912.9	4799.8	4787.6
17.5°	6601.2	6847.8	6926.6	6574.9	5915.8	5297.1	4813.9	4581.4	4454.0	4393.4	4411.6
20°	6855.9	7100.6	7035.9	6401.0	5466.9	4767.4	4336.8	4209.4	4183.1	4197.3	4191.2
22.5°	7124.8	7343.2	7058.2	6065.4	4894.8	4225.6	3989.0	3993.1	4051.7	4094.2	4104.2
25°	7399.8	7547.4	6999.4	5580.2	4280.2	3827.2	3768.6	3833.3	3948.6	4031.4	4053.7
27.5°	7664.6	7729.3	6872.1	4979.7	3752.4	3542.2	3552.3	3685.7	3859.6	3974.8	4003.1
30°	7963.8	7891.1	6627.4	4304.4	3386.5	3297.5	3382.5	3538.2	3712.0	3815.2	3839.4
32.5°	8301.5	8030.6	6239.3	3679.6	3127.7	3101.4	3240.9	3342.0	3418.9	3449.2	3465.3
35°	8722.0	8226.6	5741.9	3240.9	2895.2	2957.8	3091.3	3040.8	3010.4	2994.3	3010.4
37.5°	9267.9	8491.5	5159.6	2955.9	2707.2	2854.8	2909.4	2751.7	2632.4	2573.8	2587.9
40°	9925.0	8879.8	4599.6	2735.5	2587.9	2765.9	2670.8	2480.7	2329.1	2246.2	2252.3
42.5°	10654.9	9286.1	4128.5	2569.7	2521.2	2693.1	2494.8	2268.4	2023.9	1997.5	2023.9
45°	11421.2	9704.6	3807.1	2442.4	2488.8	2630.4	2393.8	2027.9	1854.0	1961.1	2017.7
47.5°	12187.5	10088.8	3612.9	2347.4	2472.7	2559.6	2304.8	1894.4	1771.1	1926.8	1999.6
50°	13040.6	10432.4	3526.0	2278.6	2454.5	2531.3	2171.5	1860.1	1684.2	1787.3	1864.1
52.5°	13887.7	10699.4	3461.3	2209.8	2428.2	2509.1	2106.7	1819.6	1579.0	1585.1	1627.6
55°	14732.8	10873.2	3390.6	2118.9	2369.6	2460.5	2100.6	1775.1	1500.2	1471.9	1492.1
57.5°	15634.5	10972.3	3303.6	2017.7	2268.4	2337.2	2094.6	1740.8	1475.9	1429.4	1435.5
60°	16552.5	11117.9	3190.4	1894.4	2133.0	2189.6	2080.4	1728.7	1461.8	1382.9	1389.0
62.5°	17375.4	11168.4	3054.9	1777.1	1959.1	2044.1	2050.1	1718.5	1423.3	1287.9	1287.9
65°	17915.2	10950.1	2818.3	1643.7	1771.1	1894.4	1991.5	1684.2	1354.6	1219.1	1219.1
67.5°	17892.9	10327.4	2448.4	1471.9	1589.2	1728.7	1906.6	1625.5	1271.7	1134.3	1140.3
70°	17059.9	9098.1	1979.4	1271.7	1389.0	1550.7	1797.3	1538.6	1172.6	1041.2	1053.4
72.5°	14631.8	7120.8	1437.5	1037.2	1156.5	1366.7	1655.9	1433.5	1071.5	958.4	952.2
75°	10452.7	4506.6	974.5	796.6	899.7	1158.5	1480.0	1310.2	978.6	962.4	907.7
77.5°	5339.5	2153.2	644.9	582.3	626.8	913.9	1243.4	1170.7	992.7	794.6	707.7
80°	1736.8	794.6	406.4	396.3	416.5	608.5	962.4	960.3	752.1	539.9	477.1
82.5°	554.0	341.7	264.9	254.7	244.7	382.1	671.3	760.2	507.5	341.7	339.7
85°	220.4	204.2	155.7	143.5	103.1	180.0	351.8	505.4	378.1	246.6	252.8
87.5°	80.9	80.9	42.4	30.3	22.2	60.7	95.0	151.6	216.4	127.4	125.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)